



Capital Improvement Program  
FY2013 thru FY2017  
Project Request Form

Project Title: OVERSIZING & EXTENSIONS (910161-48634)  
Project Priority: Priority 2  
Project Code: proj200 Project Type: NEW  
Department: 2011 Status: Active

Start Date (FYE): 1999  
Completion Date (FYE): 2017

Description:

This is a progressive water system planning tool for making funds available to provide water into areas not yet receiving that service.

Explanation:

There are three means by which these funds are distributed:  
1) Annual review of applications based upon priority types.  
2) Interdepartmental or city council requests.  
3) The Director's option to enlarge or extend a watermain within a developer's project; beyond the project's minimum requirements.

Funds are not shown beyond the five year duration of the CIP plan.

Justifications:

- ☐ Mandated  
☒ Remove hazards  
☐ Maintains service  
☐ Increase efficiency  
☒ Increase revenues  
☐ Improves service  
☒ New service  
☐ Convenience  
☐ Other

Alternative:

Discontinue commitment

Expenditures:	Prior	2013	2014	2015	2016	2017	Future	Total
Planning								
Land								
Construction	\$850,700	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000		\$975,700
Equipment								
Other Expenses								
Total	\$850,700	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000		\$975,700
Funding Sources:	Prior	2013	2014	2015	2016	2017	Future	Total
General Revenue								
Enterprise Revenue	\$850,700	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000		\$975,700
Bond Proceeds								
Grants								
Capital Project Fund								
Other Revenue								
Total	\$850,700	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000		\$975,700
Operating Impacts:	Prior	2013	2014	2015	2016	2017	Future	Total
Personnel								
Operating								
Capital								
Offsets								
Total								



Capital Improvement Program  
FY2013 thru FY2017  
Project Request Form

**Project Title:** WESTERN RAW WATERLINE (910161-48621)

**Project Priority:** Priority 2

**Project Code:** proj202

**Project Type:** REPLACEMENT

**Start Date (FYE):** 1995

**Department:** 2011

**Status:** Active

**Completion Date (FYE):** Future

**Description:**

Implementation of specific recommendation as set forth in the engineering document entitled "Supplement - Western Source Raw Water Supply by Wiley & Wilson". Target goal is to install 30" water pipe from Riven Rock Intake to Harrisonburg WTP. This project will assure an optimal use of high quality and least cost water at a capacity to deliver 13.8 MGD. The schedule of implementation is flexible as sections can be added and used at any increment. This pipeline will provide the greatest advantage during times of available water and it will also fulfill to upgrade of the existing 12" (1920's) and 16" (1960's) pipelines.

**Justifications:**

- ☐ Mandated
- ☐ Remove hazards
- ☐ Maintains service
- ☒ Increase efficiency
- ☒ Increase revenues
- ☒ Improves service
- ☒ New service
- ☒ Convenience
- ☐ Other

**Explanation:**

Construction Progress:  
Completed Projects (99, 136, 199, 273, 297, 345, 388) > 20,260 ft  
Remaining Projects (TBD) > 33,262 ft = \$9,147,000; Adjusted 5 yrs, 3% = \$10,350,000  
Fund Balance: \$802,651  
Require New Funding: \$9,547,349  
Project expenditures 2014-2017 will be scheduled pending completion of route study 2013

**Alternative:**

The project can be downsized in pipe diameter to a minimum delivery capacity of 5.5 MGD or the schedule for upgrade can be delayed/altered.

Expenditures:	Prior	2013	2014	2015	2016	2017	Future	Total
Planning								
Land								
Construction	\$5,212,880	\$50,000					\$9,497,400	\$14,760,280
Equipment								
Other Expenses								
Total	\$5,212,880	\$50,000					\$9,497,400	\$14,760,280
Funding Sources:	Prior	2013	2014	2015	2016	2017	Future	Total
General Revenue								
Enterprise Revenue	\$5,212,880	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$9,297,400	\$14,760,280
Bond Proceeds								
Grants								
Capital Project Fund								
Other Revenue								
Total	\$5,212,880	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$9,297,400	\$14,760,280
Operating Impacts:	Prior	2013	2014	2015	2016	2017	Future	Total
Personnel								
Operating								
Capital								
Offsets								
Total								



# Capital Improvement Program FY2013 thru FY2017 Project Request Form

**Project Title:** EASTERN SOURCE DEVELOPMENT (910161-48654)  
**Project Priority:** Priority 2  
**Project Code:** proj203  
**Department:** 2011

**Project Type:** NEW  
**Status:** Active

**Start Date (FYE):** 1999  
**Completion Date (FYE):** 2016

**Description:**

Surface Water Intake on South fork of Shenandoah River and waterline to the existing water treatment plant as outlined in the Wiley & Wilson "Waterline Route Study-Shenandoah River", November 18, 1999.

**Explanation:**

\$ 32,513,000 Expected Completion Cost  
 \$ 8,290,300 Expended as of 7/10/2011  
 \$ 3,863,600 Available Capital Project Balance  
 \$ 20,359,168 Unfunded Balance

**Alternative:**

1. Western source reservoirs
2. Western source groundwater
3. Eastern source groundwater
4. Joint Plan with Rockingham County
5. Limit growth.

**Justifications:**

- ☐ Mandated
- ☐ Remove hazards
- ☐ Maintains service
- ☐ Increase efficiency
- ☒ Increase revenues
- ☒ Improves service
- ☒ New service
- ☒ Convenience
- ☒ Other

Expenditures:	Prior	2013	2014	2015	2016	2017	Future	Total
Planning	\$1,124,600	\$312,900						\$1,437,500
Land	\$478,300	\$206,200						\$684,500
Construction	\$6,214,800	\$2,869,800		\$10,200,000	\$10,200,000			\$29,484,600
Equipment				\$166,900	\$166,900			\$906,400
Other Expenses	\$472,600	\$100,000						
Total	\$8,290,300	\$3,488,900		\$10,366,900	\$10,366,900			\$32,513,000
Funding Sources:	Prior	2013	2014	2015	2016	2017	Future	Total
General Revenue								\$9,176,740
Enterprise Revenue	\$9,176,740							\$23,336,260
Bond Proceeds	\$2,602,460			\$20,733,800				
Grants								
Capital Project Fund								
Other Revenue								
Total	\$11,779,200			\$20,733,800				\$32,513,000
Operating Impacts:	Prior	2013	2014	2015	2016	2017	Future	Total
Personnel								
Operating								
Capital								
Offsets								
Total								



# Capital Improvement Program

## FY2013 thru FY2017

### Project Request Form

**Project Title:** Management of Transmission & Distribution of Assets  
**Project Priority:** Priority 2  
**Project Code:** proj215  
**Department:** 2011

**Project Type:** Not Set  
**Status:** Active

**Start Date (FYE):** 2013  
**Completion Date (FYE):** Future

#### Description:

This "Capital Sub-Program" provides funding to manage assets that are integral to the City of Harrisonburg water system. These specific assets are operated and maintained under the organization and budget division for transmission & distribution functions.

#### Explanation:

Existing systems will be upgraded, enhanced, expanded, and revitalized through planned management of component assets as mains, hydrants, and valves. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses of assets. This subprogram makes resources available to allow the Department of Public Utilities to maintain current with new technology and new products and to also preplan the retirement of assets at the optimum replacement stage in their lifecycle.

2013 \$105,000 Parkview Water Lines  
 2013 \$ 25,000 Manhole Water Lines  
 2013 \$ 20,000 System Zone Optimization

Asset Replacement Schedule under development for 2014 - future

#### Justifications:

- ☐ Mandated
- ☐ Remove hazards
- ☒ Maintains service
- ☒ Increase efficiency
- ☐ Increase revenues
- ☒ Improves service
- ☐ New service
- ☐ Convenience
- ☒ Other

#### Alternative:

Expenditures:	Prior	2013	2014	2015	2016	2017	Future	Total
Planning								
Land								
Construction		\$150,000					\$600,000	\$750,000
Equipment								
Other Expenses								
<b>Total</b>		\$150,000					\$600,000	\$750,000
Funding Sources:	Prior	2013	2014	2015	2016	2017	Future	Total
General Revenue								
Enterprise Revenue		\$150,000	\$150,000	\$150,000	\$150,000	\$150,000		\$750,000
Bond Proceeds								
Grants								
Capital Project Fund								
Other Revenue								
<b>Total</b>		\$150,000	\$150,000	\$150,000	\$150,000	\$150,000		\$750,000
Operating Impacts:	Prior	2013	2014	2015	2016	2017	Future	Total
Personnel								
Operating								
Capital								
Offsets								
<b>Total</b>								



# Capital Improvement Program

## FY2013 thru FY2017

### Project Request Form

**Project Title:** Management of Storage & Transfer of Assets  
**Project Priority:** Priority 2  
**Project Code:** proj216  
**Department:** 2011

**Project Type:** Not Set  
**Status:** Active

**Start Date (FYE):** 2013  
**Completion Date (FYE):** Future

**Description:**

This "Capital Sub-Program" provides funding to manage assets that are integral to the City of Harrisonburg water system. These specific assets are operated and maintained under the organization and budget division for storage & transfer functions.

**Explanation:**

Existing systems will be upgraded, enhanced, expanded, and revitalized through planned management of component assets as pumps, tanks, control valves, and instrumentation. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses of assets. This subprogram makes resources available to allow the Department of Public Utilities to maintain current with new technology and new products and to also preplan the retirement of assets at the optimum replacement stage in their lifecycle.

2013 \$ 25,000 Park View Tank Interior Repairs  
 2013 \$100,000 Ridgeville Tank Interior Repairs  
 2014 \$125,000 Coopers Mountain Tank Painting

Remaining Asset Schedule Under Development

**Justifications:**

- ☐ Mandated
- ☐ Remove hazards
- ☒ Maintains service
- ☒ Increase efficiency
- ☐ Increase revenues
- ☒ Improves service
- ☐ New service
- ☐ Convenience
- ☒ Other

**Alternative:**

Expenditures:	Prior	2013	2014	2015	2016	2017	Future	Total
Planning								
Land								
Construction		\$125,000	\$125,000				\$375,000	\$625,000
Equipment								
Other Expenses								
<b>Total</b>		\$125,000	\$125,000				\$375,000	\$625,000
Funding Sources:	Prior	2013	2014	2015	2016	2017	Future	Total
General Revenue								
Enterprise Revenue		\$125,000	\$125,000	\$125,000	\$125,000	\$125,000		\$625,000
Bond Proceeds								
Grants								
Capital Project Fund								
Other Revenue								
<b>Total</b>		\$125,000	\$125,000	\$125,000	\$125,000	\$125,000		\$625,000
Operating Impacts:	Prior	2013	2014	2015	2016	2017	Future	Total
Personnel								
Operating								
Capital								
Offsets								
<b>Total</b>								